



70L7-GT



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RECTIFIER-BEAM POWER AMPLIFIER

| | | |
|--------------------------|------------------------------|-------------------------|
| Heater | Coated Unipotential Cathodes | |
| Voltage | 70 | a-c or d-c volts |
| Current | 0.15 | amp. |
| Maximum Overall Length | | 3-7/16" ← |
| Maximum Seated Height | | 2-7/8" ← |
| Maximum Diameter | | 1-5/16" |
| Bulb | | T-9 |
| Base | Intermed. Sh. Octal 8-Pin | |
| Pin 1 - Rectifier Cath. | | Pin 5 - Amplifier Grid |
| Pin 2 - Heater | | Pin 6 - Amplifier Cath. |
| Pin 3 - Amplifier Plate | | Pin 7 - Heater |
| Pin 4 - Amplifier Screen | | Pin 8 - Rectifier Plate |
| Mounting Position | | Any |

BOTTOM VIEW (8AA)

AMPLIFIER UNIT

| | | | |
|---|-----------|-------|---|
| Plate Voltage | 117 max. | volts | ← |
| Screen Voltage | 117 max. | volts | ← |
| Plate Dissipation | 5.0 max. | watts | ← |
| Screen Dissipation | 1.0 max. | watt | ← |
| <i>Typical Operation and Characteristics - Class A₁ Amplifier:</i> | | | |
| Plate | 110 | volts | ← |
| Screen | 110 | volts | ← |
| Grid* | -7.5 | volts | ← |
| Peak A-F Grid Voltage | 7.5 | volts | ← |
| Zero-Signal Plate Cur. | 40 | ma. | ← |
| Max.-Signal Plate Cur. | 43 | ma. | ← |
| Zero-Signal Screen Cur. | 3 approx. | ma. | ← |
| Max.-Signal Screen Cur. | 6 approx. | ma. | ← |
| Plate Resistance | 15000 | ohms | ← |
| Transconductance | 7500 | μmhos | ← |
| Load Resistance | 2000 | ohms | ← |
| Total Harmonic Distortion | 10 | % | ← |
| Max.-Signal Power Output | 1.8 | watts | ← |

RECTIFIER UNIT

| | | | |
|---|----------|-------|---|
| Peak Inverse Voltage | 350 max. | volts | ← |
| Peak Plate Current | 420 max. | ma. | ← |
| D-C Heater-Cathode Potential | 175 max. | volts | ← |
| <i>With Condenser-Input Filter:</i> | | | |
| A-C Plate Voltage (RMS) | 117 max. | volts | ← |
| Total Effective Plate-Supply Impedance [▲] | 15 min. | ohms | ← |
| D-C Output Current | 70 max. | ma. | ← |

■ It is recommended that the potential difference between heater and cathode of the amplifier unit be kept as low as possible by connecting pin #2 to the side of the line opposite that to which pins #7 & #8 are connected.

* The type of input coupling used should not introduce too much resistance in the grid circuit. Transformer- or impedance-coupling devices are recommended. When the grid circuit has a resistance not higher than 0.1 megohm, fixed bias may be used; for higher values, cathode bias is required. With cathode bias, the grid circuit may have a resistance not higher than 0.5 megohm.

▲ When a filter-input condenser larger than 40 μf is used, it may be necessary to use more plate-supply impedance than the minimum value shown to limit the peak plate current to the rated value.

← Indicates a change.

Dec. 1, 1941

RCA RADOTRON DIVISION
RCA MANUFACTURING COMPANY, INC.

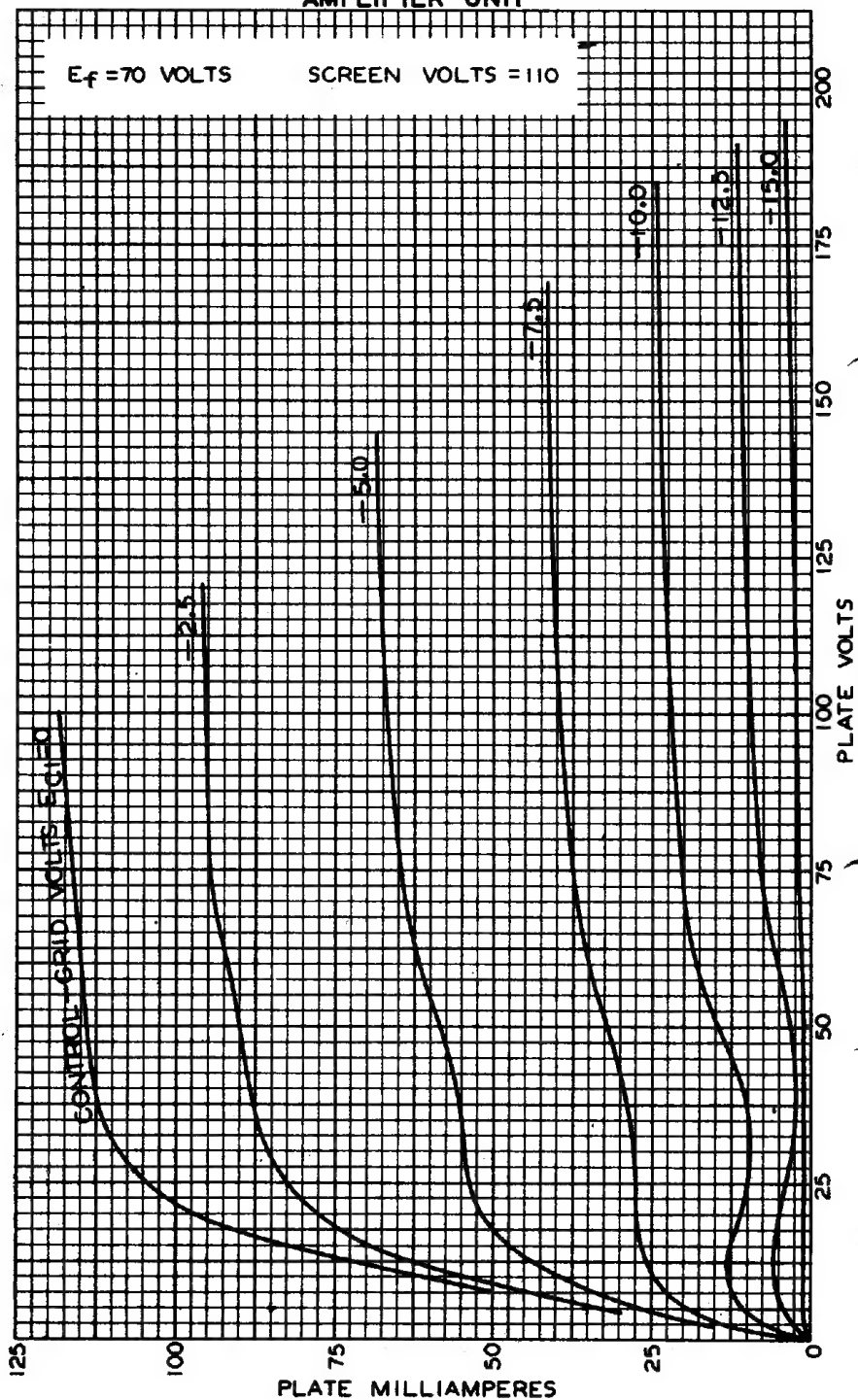
DATA

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AVERAGE PLATE CHARACTERISTICS AMPLIFIER UNIT



SEPT. 26, 1941

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92C-6323